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NOV 17 2005

AMENDMENTSIn the Claims:

Please cancel claims 51-76 without prejudice.

No claims have been amended.

Please add new claims 77-101 as shown herein.

Claims 77-101 are pending and are listed following:

1-50. (canceled) These claims were canceled by Preliminary Amendment when the subject application was filed.

51-76. (canceled)

Please add new claims 77-101 as follows:

77. (new) One or more computer readable media comprising computer executable instructions that, when executed, direct a network system having a content provider which provides content over a network through local service providers to multiple content rendering units, the network system being directed to:

identify a peak time when a plurality of the content rendering units are likely to request the content supplied by the content provider;

send at least some of the content from the content provider to the local service provider prior to the peak time; and

store the content received from the content provider at the local service provider for use during the peak time.

1  
2       **78. (new)** One or more computer readable media as recited in claim 77,  
3 further comprising computer executable instructions that, when executed, direct  
4 the network system to send at least some of the content from the content provider  
5 to the local service provider prior to the peak time without being requested by the  
6 content rendering units.

7  
8       **79. (new)** One or more computer readable media as recited in claim 77,  
9 further comprising computer executable instructions that, when executed, direct  
10 the network system to send streaming audio or video data from the content  
11 provider to the local service provider prior to the peak time.

12  
13       **80. (new)** One or more computer readable media as recited in claim 77,  
14 further comprising computer executable instructions that, when executed, direct  
15 the network system to request the content at a local service provider based on  
16 results of identifying the peak time.

17  
18       **81. (new)** One or more computer readable media as recited in claim 77,  
19 further comprising computer executable instructions that, when executed, direct  
20 the network system to monitor usage patterns of the content and schedule early  
21 sending of the content at a time prior to the peak time based on the usage patterns.

1           **82. (new)** One or more computer readable media as recited in claim 77,  
2 further comprising computer executable instructions that, when executed, direct  
3 the network system to serve the content from the local service providers to  
4 requesting content rendering units during the peak time.

5  
6           **83. (new)** One or more computer readable media as recited in claim 77,  
7 further comprising computer executable instructions that, when executed, direct  
8 the network system to designate the peak time in terms of discrete time slots as  
9 covering an ending portion of at least one time slot and a beginning portion of at  
10 least one subsequent time slot, and send the content that is likely to be requested in  
11 the subsequent time slot prior to the peak time.

12  
13           **84. (new)** One or more computer readable media as recited in claim 77,  
14 further comprising computer executable instructions that, when executed, direct  
15 the network system to customize a set of prioritized content according to requests  
16 made by the content rendering units, and selectively send the set of prioritized  
17 content to the local service provider prior to the peak time.

18  
19           **85. (new)** One or more computer readable media as recited in claim 77,  
20 further comprising computer executable instructions that, when executed, direct  
21 the network system to assign a time-to-live tag to the content to indicate when the  
22 content is expected to be updated.

1       **86. (new)** One or more computer readable media as recited in claim 77,  
2 further comprising computer executable instructions that, when executed, direct  
3 the network system to estimate a time-to-live tag for the content received from the  
4 content provider at a local service provider to indicate when the content is  
5 expected to be updated.

6  
7       **87. (new)** One or more computer readable media as recited in claim 86,  
8 further comprising computer executable instructions that, when executed, direct  
9 the network system to derive the time-to-live tag based upon a time since the  
10 content was last updated.

11  
12       **88. (new)** One or more computer readable media comprising computer  
13 executable instructions that, when executed, direct a local service provider in a  
14 network system having a content provider which provides content over a network  
15 through the local service provider to multiple content rendering units, the local  
16 service provider being directed to:

17       monitor usage patterns to detect highly requested content;  
18       identify from the usage patterns a peak time when a plurality of the content  
19 rendering units are likely to request the content;  
20       schedule delivery of the highly requested content at a scheduled time prior  
21 to the peak time;  
22       receive the highly requested content from the content provider at the  
23 scheduled time prior to the peak time; and  
24       store the highly requested content received from the content provider for  
25 use during the peak time.

1  
2       **89. (new)** One or more computer readable media as recited in claim 88,  
3 further comprising computer executable instructions that, when executed, direct  
4 the local service provider to monitor the usage patterns to detect highly requested  
5 streaming audio or video data.

6  
7       **90. (new)** One or more computer readable media as recited in claim 88,  
8 further comprising computer executable instructions that, when executed, direct  
9 the local service provider to modify target specifications, which are used by the  
10 local service provider to reference the content stored at the content provider, to  
11 instead reference the content stored at the local service provider.

12  
13       **91. (new)** One or more computer readable media as recited in claim 88,  
14 further comprising computer executable instructions that, when executed, direct  
15 the local service provider to serve the stored content to requesting content  
16 rendering units during the peak time.

17  
18       **92. (new)** One or more computer readable media as recited in claim 88,  
19 further comprising computer executable instructions that, when executed, direct  
20 the local service provider to estimate a time-to-live tag for the content received  
21 from the content provider to indicate when the content is expected to be updated.

1           **93. (new)** One or more computer readable media as recited in claim 92,  
2 further comprising computer executable instructions that, when executed, direct  
3 the local service provider to derive the time-to-live tag based upon a time since the  
4 content was last updated.

5  
6           **94. (new)** One or more computer readable media comprising computer  
7 executable instructions that, when executed, direct a network system having a  
8 content provider which provides content through a local service provider to  
9 multiple content rendering units, the content being provided from the content  
10 provider to the local service provider over a first network, the network system  
11 being directed to:

12           distribute supplemental content from the content provider to the local  
13 service provider over a second network;

14           choose selected portions of the supplemental content to be stored at the  
15 local service provider based upon usage patterns exhibited by the content rendering  
16 units; and

17           store the selected portions of the supplemental content received from the  
18 content provider in a cache at the local service provider for use in serving the  
19 content rendering units.

20  
21           **95. (new)** One or more computer readable media as recited in claim 94,  
22 further comprising computer executable instructions that, when executed, direct  
23 the network system to distribute the supplemental content as streaming audio or  
24 video data from the content providers to the local service provider over the second  
25 network.

1  
2       **96. (new)** One or more computer readable media as recited in claim 94,  
3 further comprising computer executable instructions that, when executed, direct  
4 the network system to broadcast the supplemental content via the second network  
5 which is a satellite network.

6  
7       **97. (new)** One or more computer readable media as recited in claim 94,  
8 further comprising computer executable instructions that, when executed, direct  
9 the network system to serve the distributed content from the local service provider  
10 to requesting content rendering units.

11  
12       **98. (new)** One or more computer readable media comprising computer  
13 executable instructions that, when executed, direct a network system having a  
14 content provider which provides content through a local service provider to  
15 multiple content rendering units, the content being provided from the content  
16 provider to the local service provider over a first network, the network system  
17 being directed to:

18       identify a peak time when a plurality of the content rendering units are  
19 likely to request the content stored at the content provider;

20       distribute supplemental content from the content provider to the local  
21 service provider over a second network prior to the peak time; and

22       store selected portions of the supplemental content received from the  
23 content provider in a cache at the local service provider for use in serving the  
24 content rendering units.  
25

1        99.    (new) One or more computer readable media comprising computer  
2 executable instructions that, when executed, direct a network system having a  
3 content provider which provides content through a local service provider to  
4 multiple content rendering units, the content being provided from the content  
5 provider to the local service provider over a first network, the network system  
6 being directed to:

7        distribute supplemental content from the content provider to the local  
8 service provider over a second network;

9        store selected portions of the supplemental content received from the  
10 content provider in a cache at the local service provider to serve the content  
11 rendering units; and

12        assign a time-to-live tag to the supplemental content to indicate when the  
13 content is expected to be updated.



1       **100. (new)** One or more computer readable media comprising computer  
2 executable instructions that, when executed, direct a network system having a  
3 content provider which provides content through a local service provider to  
4 multiple content rendering units, the content being provided from the content  
5 provider to the local service provider over a first network, the network system  
6 being directed to:

7       distribute supplemental content from the content provider to the local  
8 service provider over a second network;

9       store selected portions of the supplemental content received from the  
10 content provider in a cache at the local service provider for use in serving the  
11 content rendering units; and

12       estimate a time-to-live tag for the supplemental content received from the  
13 content provider at the local service provider to indicate when the supplemental  
14 content is expected to be updated.

15  
16       **101. (new)** One or more computer readable media as recited in claim 100,  
17 further comprising computer executable instructions that, when executed, direct  
18 the network system to derive the time-to-live tag based upon a time since the  
19 supplemental content was last updated.  
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24  
25